

**ABSTRACT OF THE DISCLOSURE**

A high-resolution display displaying an image on a screen includes an illumination optical system, an image optical system, a pixel moving optical system, and a projection optical system. The illumination optical system includes a light source emitting a light. The image optical system includes an image forming device modulating an incident light to form the image. The pixel moving optical system includes a prism array deflecting the light from the image optical system to move pixels of the image to increase a number of pixels. The projection optical system includes a projection lens projecting the deflected light by the pixel moving optical system onto the screen.